1. Record Nr. UNISALENTO991003215519707536

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Titolo	Water hammer [e-book] : practical solutions / by B.B. Sharp and D.B Sharp
Pubbl/distr/stampa	London : Arnold New York : Halsted Press, 1996
ISBN	9780340645970 0340645970
Descrizione fisica	xi, 172 p. : ill. ; 24 cm
Altri autori (Persone)	Sharp, D. B.author
Disciplina	620.1064
Soggetti	Water hammer Electronic books.
Lingua di pubblicazione	Inglese
Formato	Risorsa elettronica
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. [165]-168) and index
Nota di contenuto	Nomenclature * The valve * The pump * The booster * Machine inertia * An optimum pump location * The non-return valve (check valve) * Non-return valve as a protection method * The complex system * The separation problem * The non-elastic conduit * The high-point * Fire protection * The plumbing problem * Structural interaction * The open surge tank * The one-way surge tank * The P R V (pressure regulating valve) * The resonance problem * Series pumping * Impact of ocean waves * Compound pipes * Air vessel protection * A hydro-electric example * Expansion loops (lyres) * The dead end * Cooling water systems * Sewage pumps * Appendix 1: Liquid and material properties * Appendix 2: Data file for complex network example * Appendix 3: Water hammer chart * References * Index
Sommario/riassunto	Water hammer, or the study of fluid transient behaviour, is one of the most common problems in the water engineering community. This book covers the many causes and solutions in a practical way and is an essential reference for all those concerned with the flow of liquids, not just water, in pipe systems. It follows on from the authors' previous monograph on the problems and solutions of water hammer and presents common problems in the form of case studies. This is an interesting and useful read for practising engineers working in this area

and it will enable them to make comparisons with their own problems. Also the practical nature of the book makes it useful for civil engineering departmental libraries and departments where hydraulic design is taught